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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/765,926
Applicant : Baldomero M. OLIVERA et al.
Filed : January 29, 2004
TC/A.U. : 1653
Examiner : Gabriele E. Bugaisky

Docket No. : 2314-273
Customer No. : 06449
Confirmation No. : 2903

INFORMATION DISCLOSURE STATEMENT

Director of the United States Patent
and Trademark Office
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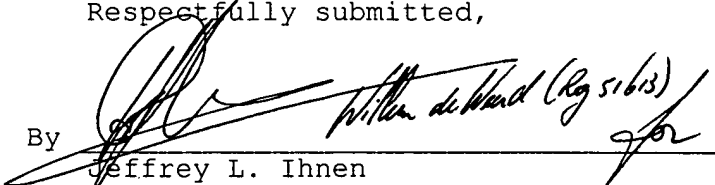
Dear Sir:

Under the provisions of 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant submits herewith Form PTO-1449 listing publications that the Office may wish to consider in examination of the subject application. Materials submitted for consideration are also listed on the attached form PTO-1449, and include a copy of the International Search Report from the corresponding European application and references cited therein.

Pursuant to 1.98(d), copies of some of the references are not included because they were previously submitted to the Office in prior application Serial No. 09/910,082, filed July 23, 2001, and to which priority is or has been claimed under 35 USC § 120.

Respectfully submitted,

By


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number	10/765,926
Filing Date	January 29, 2004
First Named Inventor	Baldomero M. OLIVERA
Group Art Unit	1653
Examiner Name	

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
	1	5,591,821		Olivera et al.	01/07/1997
	2	5,587,454		Justice et al.	12/24/1996
	3	5,559,095		Miljanich et al.	09/24/1996
	4	5,231,011		Hillyard et al.	07/27/1993

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁶
		Office ³ Code	Number ⁴	Kind ⁵ (if known)			
	5	WO	99/54350		Univ. of Queensland	10/28/1999	
	6	WO	93/10145		Neurex Corporation	05/27/1993	

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code.

⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
	7	Bai-Song, Lu, et al., "Conopeptides from <i>Conus striatus</i> and <i>Conus textile</i> by cDNA cloning," Peptides, Vol. 20, pp. 1139-1144 (1999)			
	8	Database EMBL Online, CX05_CONGE, "Omega-conotoxin GVIA precursor (Shaker peptide) (SNX-124)" (July 21, 1986)			
	9	Database EMBL Online, CX0A_CONMA, "Omega-conotoxin MVIIa precursor (SNX-111) (Zicotonide) (Nov. 1, 1988)			
	10	Hillyard, D.R. et al., "A New Conus Peptide Ligand for Mammalian Presynaptic CA ²⁺ Channels", <i>Neuron</i> , Vol. 9, pp. 69-77, July 1992.			
	11	Hogg, R. C., et al., "Single Amino Acid Substitutions in α -Conotoxin PnIA Shift Selectivity for Subtypes of the Mammalian Neuronal Nicotinic Acetylcholine Receptor," <i>The Journal of Biological Chemistry</i> , Vol. 274, No. 51, pp. 36559-36564 (1999)			
	12	Jacobsen, R. B., "Critical Residues Influence the Affinity and Selectivity of α -Conotoxin MI for Nicotinic Acetylcholine Receptors," <i>Biochemistry</i> , Vol. 38, pp. 13310-13315 (1999)			
	13	Monje, V.D., et al., "A New Conus Peptide Ligand for Ca Channel Subtypes", <i>Neuropharmacology</i> , Vol. 32, No. 11, pp. 1141-1149 (1993).			
	14	Myers, R.A., et al., "Conus Peptides as Chemical Probes for Receptors and Ion Channels", <i>Chemical Reviews</i> , Vol. 93, No. 5, pp. 1923-1936 (1993).			
	15	Nadasdi, L. et al., "Structure-Activity Analysis of a <i>Conus</i> Peptide Blocker of N-Type Neuronal Calcium Channels, <i>Biochemistry</i> , Vol. 34, pp. 8076-8081 (1995)			
	16	Nielsen, K. J. et al., "A Consensus Structure for ω -Conotoxins with Different Selectivities for Voltage-sensitive Calcium Channel Subtypes: Comparison of MVIIA, SVIB and SNX-202," <i>J. Mol. Biol.</i> , Vol. 263, pp. 297-310 (1996)			
	17	Olivera B.M., et al., "Neuronal Calcium Channel Antagonists. Discrimination between Calcium Channel Subtypes Using ω -Conotoxin from <i>Conus magus</i> Venom†", <i>Biochemistry</i> , Vol. 26, No. 8, pp.2086-2090 (1987).			
	18	Olivera B.M., et al., "Conotoxins*", <i>The Journal of Biological Chemistry</i> , Vol. 266, No. 33, pp. 22067-22070 (1991).			
Examiner Signature				Date Considered	

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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T ²
	19	Olivera, B.M., et al., "Diversity of Conus Neuropeptides", <i>Science</i> , Vol. 249, pp. 257-263, July 20, 1990.			
	20	Olivera, B.M. et al., "Peptide Neurotoxins from Fish-Hunting Cone Snails", <i>Science</i> , Vol. 230, pp. 1338-1343, December 20, 1985.			
	21	Ramilo, C.A., et al., "Novel α - and ω -Conotoxins from <i>Conus striatus</i> Venom†", <i>Biochemistry</i> , Vol. 31, No. 41, pp. 9919-9926 (1992).			
	22	Rivier, J., et al., "Neuronal Calcium Channel Inhibitors", <i>The Journal of Biological Chemistry</i> , Vol. 262, No. 3, pp. 1194-1198 (1987).			
	23	Sato, K., et al., "Binding of chimeric analogs of ω -conotoxins MVIIA and MVIIC to the N- and P/Q-type calcium channels," <i>FEBS Letters</i> , Vo. 414, pp. 480-484 (1997)			
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